INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

November 19, 2003

TO: Interested Parties / Applicant

RE: Delco Electronics Corporation / 067-17930-00061

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

(1) the name and address of the person making the request;
(2) the interest of the person making the request;
(3) identification of any persons represented by the person making the request;
(4) the reasons, with particularity, for the request;
(5) the issues, with particularity, proposed for considerations at any hearing; and
(6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER-MOD.dot 9/16/03

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November 19, 2003

Mr. Jeff Blankenberger
Delco Electronics Corporation
P.O. Box 9005
Kokomo, Indiana 46904

Re: 067-17930-00061
Minor Source Modification to:
Part 70 permit No.:T067-6505-00061

Dear Mr. Blankenberger:

Delco Electronics Corporation was issued a Part 70 operating permit (T067-6505-00061) on October 21, 2002 for an electronic components manufacturing plant for the auto industry. An application to modify the source was received on May 15, 2003. Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for modification at the source:

One (1) wave solder machine, ID #1015805 (Plant 7, Dept. 286), constructed in 2003, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(1) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

Since this modification is a complete replacement of an existing emission unit, the source may begin construction and operation before the minor source modification and minor permit modification have been issued, pursuant to 326 IAC 2-7-10.5(b).

Pursuant to Contract No. A305-0-00-36, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Yu-Lien Chu, ERG,1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7871 to speak directly to Ms. Chu. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027, and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original Signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

ERG/YC

cc: File - Howard County
Howard County Health Department
Air Compliance Section Inspector - Marc Goldman
Compliance Data Section - Karen Ampil
Administrative and Development -Sara Cloe
Technical Support and Modeling - Michele Boner

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PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Delco Electronics Corporation
2100 East Lincoln Road
Kokomo, Indiana 46904-9005

(herein known as the Permittee) is hereby authorizes to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T067-6505-00061	
Originally signed by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: October 21, 2002 Expiration Date: October 21, 2007

First Significant Permit Modification No. 067-16294-00061, issued April 14, 2003
First Administrative Amendment No.: 067-17300-00061, issued September 10, 2003

First Minor Source Modification No.: 067-17930-00061	Affected Pages: 1, 2, 7 through 11
Issued by: Original Signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: November 19, 2003

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1, A.3, and A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a source which produces electronic components principally for the automotive industry.

Responsible Official:	Managing Director, Kokomo Operations
Source Address:	2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address:	P.O. Box 9005, Kokomo, Indiana 46904-9005
General Source Phone Number:	(765) 451-6738
SIC Code:	3089, 3469, 3471, 3651, 3672, 3674, 3679, 3694
County Location:	Howard
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This source which produces electronic components principally for the automotive industry consists of Plants 6, 7, and 9 (Plant ID 067-00022); Plants 8, and 10 (Plant ID 067-00023); and Fab III (Plant ID 067-00051), located respectively at 1800 - 2100 and 2150 East Lincoln Road and 2033 East Boulevard Avenue, Kokomo, Indiana.

Since these plants are located on contiguous or adjacent properties, belong to the same industrial grouping, and are under common control of the same entity, they will be considered one (1) source. One combined Part 70 Permit will be issued to Delco Electronics Corporation. The new plant ID for the combined source is 067-00061.

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) wave soldering system, referred to as EU_WS, and comprised of the following emission units:

(1) One (1) wave solder machine, ID #184842 (Plant 9, Dept. 270E), constructed in 1997, with a capacity of 500 boards per hour, 5.78 pounds of flux per hour, and 0.09 pounds of thinner per hour, and exhausting to stack 9-E98-1;

(2) One (1) selective soldering machine, ID #2700001 (Plant 9, Dept. 270S), constructed in 1998, with a capacity of 90 boards per hour, 0.738 pounds of flux per hour, and no thinner use, and exhausting to stack 9-F98-1;

(3) One (1) wave solder machine, ID #1015805 (Plant 7, Dept. 286), constructed in 2003, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1;

(4) One (1) wave solder machine, ID #181019, (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F8-1;

(5) Nine (9) soldering machines, (Tech 2000 - Dept. 9502); two (2) constructed in 1999, ID#169964 and 208554; one (1) constructed in 2001; one (1) to be constructed in 2002; two (2) to be constructed in 2003; and three (3) to be constructed in 2004; all received approval in 067-10500-00061, with a capacity of 90 boards per hour each, and exhausting to stack 9-Z21-1 and 9-Z21-2; and

(6) One (1) wave soldering machine, ID #60000984, (Plant 7, Dept. 7661), constructed in 1996, with a capacity of 450 boards per hour, and exhausting to stack 7-T18-1.

(b) One (1) surface coating system, referred to as EU_SC, with conformal coating applied to populated fiberglass circuit boards, paints applied to plastic radio and air control buttons and plastic face plates, comprised of the following emission units:

(1) Two (2) conformal coating hoods, (Plant 7, Dept. 7086), constructed in 1996, with a maximum capacity of 200 boards per hour, venting to stack 7-S18-1;

(2) Four (4) automated select conformal coaters, (Plant 7, Dept. 7130), with a maximum capacity of 222 pounds of circuit board per hour, constructed in 2002, with no control exhausting to stack 7-T22-1;

(3) One (1) conformal coater, ID #182386, (Plant 9, Dept. 7641),constructed in 1991, with a capacity of 515 boards per hour with no control, and exhausting to stack 9-C4-1;

(4) One (1) paint spray booth 1, ID #153415, (Plant 9, Dept. 962), constructed in 1985, with a maximum coating usage of 1.5 gallons per hour, with waterwalls for control, and exhausting to stack 9-C17-1; and

(5) One (1) paint booth to coat automotive plastic parts, ID #165441, (Plant 9, Dept. 964), constructed in 1993, with a maximum coating usage of 0.89 gallons per hour with waterwalls for control, and exhausting to stack 9-C15-1.

(c) One (1) combustion system, referred to as EU_CO, comprised of the following emission units:

(1) One (1) natural gas-fired boiler, referred to as Boiler #9, Plt. 6, ID #16554, constructed in 1977, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 6-K12-1;

(2) One (1) natural gas-fired boiler, referred to as Boiler #10, Plt. 6, ID #21492, constructed in 1980, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 6-K12-2;

(3) One (1) natural gas-fired boiler, referred to as Boiler #1E, Plt. 8, ID #38302, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A11-3;

(4) One (1) natural gas-fired boiler, referred to as Boiler #2E, Plt. 8, ID #13313, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A11-4;

(5) One (1) natural gas-fired boiler, referred to as Boiler #3E, Plt. 8, ID #13312, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-B11-1;

(6) One (1) natural gas-fired boiler, referred to as Boiler #1W, Plt. 8, ID #852, constructed in 1967, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A13-4;

(7) One (1) natural gas fired boiler, referred to as Boiler Clayton 8W1, Plt. 8, constructed in 1996, with a capacity of 24.5 MMBtu/hr, and exhausting to stack 8-A13-7;

(8) One (1) natural gas-fired boiler, referred to as Boiler Clayton 8W2, Plt. 8, constructed in 1996, with a capacity of 24.5 MMBtu/hr, and exhausting to stack 8-A13-8;

(9) One (1) natural gas-fired boiler, referred to as Boiler West (831), Plt. 8, ID #17383, constructed in 1980, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 8-J27-1;

(10) One (1) natural gas-fired boiler, referred to as Boiler #8W, Plt. 9, ID #840, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-2;

(11) One (1) natural gas-fired boiler, referred to as Boiler #6W, Plt 9, ID #841, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-4;

(12) One (1) natural gas-fired boiler, referred to as Boiler #5W, Plt. 9, ID #5569, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-1;

(13) One (1) natural gas-fired boiler, referred to as Boiler #3E, Plt. 9, ID #181067, constructed in 1990, with a capacity of 20.922 MMBtu/hr, and exhausting to stack 9-F10-2;

(14) One (1) natural gas-fired boiler, referred to as Boiler #2E, Plt. 9, ID #839, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-F10-5;

(15) One (1) natural gas-fired boiler with No. 2 fuel oil backup, referred to as Boiler #1, Fab III, ID #151563, constructed in 1984, with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(16) One (1) natural gas-fired boiler with No 2 fuel oil backup, referred to as Boiler #2, Fab III, ID #151562, constructed in 1984. with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(17) One (1) natural gas-fired boiler, referred to as Boiler #3, Fab III, ID #8294003, constructed in 1992, with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(18) One (1) natural gas fired Cleaver-Brooks 350 hp boiler, referred to as Boiler #1 Plt. 10, constructed in 2001, with a capacity of 14.65 MMBtu/hr, and exhausting to stack 10-E10-1;

(19) One (1) natural gas fired Cleaver-Brooks 350 hp boiler, referred to as Boiler #2 Plt. 10, ID #201182, constructed in 1995, with a capacity of 14.65 MMBtu/hr, and exhausting to stack 10-E10-1;

(20) Four (4) dynamometer testing cells, known as cells 1 through 4, constructed in 1997, each equipped with a 4,000 acfm exhaust stack, total capacity: 3.75 gallons of unleaded motor fuel burned per hour, and exhausting to stack 9-E85-1; and

(21) One (1) natural gas-fired boiler, referred to as Boiler MOS, Plt 8, ID #15917, constructed in 1977, with a capacity of 12.6 MMBtu/hr, and exhausting to stack 8-K18-1.

(d) One (1) degreasing system, referred to as EU_DG, comprised of the following emission units:

(1) Two (2) semi-aqueous cleaners for ceramic substrates, (Plant 6, Depts. 850 & 851), ID #190387 and 190388, constructed in 1993 with #190387 replaced in 2002, with a maximum throughput of 1,500 ceramic substrates each, and exhausting to stacks 6-N6-1 and 6-M19-2, respectively; and

(2) One (1) halogenated degreaser, (Plant 8, Dept. 889) ID #161437, constructed in 1987 with a maximum capacity of 750 boards per hour.

(e) One (1) quad-fine-pitch (QFP) plater with a 3400 CFM fume scrubber, constructed in 1992, referred to as EU_EP, and exhausting to stack 6-K24-3.

(f) One (1) semiconductor system, referred to as EU_CR, consisting of the following emission units:

(1) One (1) acid mixing operation for nitric, phosphoric, sulfuric, and hydrofluoric acids, constructed in 1980, with an average throughput of 9,990 gallons/yr of sulfuric acid, 3,400 gallons/yr of phosphoric acid, 7,400 gallons/yr of nitric acid, 8,000 gallons/yr of hydrofluoric acid, and 4,100 gallons/yr of acetic acid, controlled by one (1) fume scrubber, also constructed in 1980, with a maximum capacity of 25,000 CFM;

(2) One climate controlled clean room, designated as Fab I wet room, constructed in 1981, exhausting through five (5) wet scrubbers with maximum capacities of 3400 CFM, 8950 CFM, 12150 CFM, 20000 CFM, and 20000 CFM, respectively;

(3) One (1) silicon wafer coating room, designated as Fab I yellow room, constructed in 1981;

(4) One (1) climate controlled clean room, designated as Fab V wet room, constructed in 1981, exhausting through two (2) wet scrubbers with maximum capacities of 12000 CFM and 16000 CFM;

(5) One (1) silicon wafer coating room, designated as Fab V yellow room, constructed in 1984;

(6) One (1) climate controlled clean room, designated as Fab III wet room, constructed in 1984, and exhausting through four (4) wet scrubbers with maximum capacities of 40000 CFM each; and

(7) One (1) silicon wafer coating room, designated as Fab III yellow room, constructed in 1984.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour:

(1) One (1) natural gas-fired boiler referred to as Boiler TTC, ID # 9424001, constructed in 1993, with a capacity of 1.8 MMBtu/hr [326 IAC 6-2-4];

(b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3-2] [326 IAC 8-3-5];

(1) Five (5) cold cleaners in Plant 6, constructed pursuant to CP067-3262-00022;

(2) One (1) cold cleaner in Plant 7;

(3) Four (4) cold cleaners in Plant 8;

(4) Twelve (12) cold cleaners in Plant 9; and

(5) Two (2) cold cleaners in Plant 10.

(c) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone [326 IAC 6-3-2];

(d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations [326 IAC 6-3-2]; and

(e) Sources emitting less than five (5) tons per year of PM, ten (10) tons per year of VOC, one (1) ton per year of a single HAP, and two and a half (2.5) tons per year of any combination of HAPs [326 IAC 6-3-2] [40 CFR 52, Subpart P]:

(1) One (1) wave solder machine, ID #202031, Dept, 7120, constructed in 1999;

(2) One (1) wave solder machine, Dept. 7120, constructed in 1999;

(3) One (1) wave solder machine, ID #1012806, Dept. 7120, constructed in 1999;

(4) One (1) wave solder machine, ID# 194110 (Plant 9, Department 9601), constructed in 1991, with a capacity of 280 boards per hour, and exhausting to Stack 9-F7-1;

(5) One (1) wave solder machine, ID#186604 (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F7-2;

(6) One (1) wave solder machine, ID#165812 (Plant 9, Dept. 9604), constructed in 1983, with a capacity of 280 boards per hour, and exhausting to stack 9-C8-1; and

(7) Solvent cleaners utilizing predominantly non-photochemically reactive compounds, emitting less than 15 lb/day.

(8) Two (2) maintenance spray booths, constructed in 2003, located in the Central Maintenance Shop, with a total maximum paint usage of 0.71 gallons per hour, both controlled by dry filters.

(f) Diesel generators not exceeding one thousand six hundred (1,600) horsepower.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) One (1) wave soldering system, referred to as EU_WS, and comprised of the following emission units:

(1) One (1) wave solder machine, ID #184842 (Plant 9, Dept. 270E), constructed in 1997, with a capacity of 500 boards per hour, 5.78 pounds of flux per hour, and 0.09 pounds of thinner per hour, and exhausting to stack 9-E98-1;

(2) One (1) selective soldering machine, ID #2700001 (Plant 9, Dept. 270S), constructed in 1998, with a capacity of 90 boards per hour, 0.738 pounds of flux per hour, and no thinner use, and exhausting to stack 9-F98-1;

(3) One (1) wave solder machine, ID #1015805 (Plant 7, Dept. 286), constructed in 2003, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1;

(4) One (1) wave solder machine, ID #181019, (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F8-1;

(5) Nine (9) soldering machines, (Tech 2000 - Dept. 9502); two (2) constructed in 1999, ID#169964 and 208554; one (1) constructed in 2001; one (1) to be constructed in 2002; two (2) to be constructed in 2003; and three (3) to be constructed in 2004; all received approval in 067-10500-00061, with a capacity of 90 boards per hour each, and exhausting to stack 9-Z21-1 and 9-Z21-2; and

(6) One (1) wave soldering machine, ID #60000984, (Plant 7, Dept. 7661), constructed in 1996, with a capacity of 450 boards per hour, and exhausting to stack 7-T18-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6] [326 IAC 2-2]

(a) Pursuant to CP067-8909-00061, issued November 13, 1997, the input volatile organic compounds (VOC) including flux and thinner delivered to the applicators of the two (2) wave solder machines, ID # 184842 (Plant 9, Dept. 270E), and 2700001 (Plant 9, Dept. 270S), minus the VOC flux/thinner shipped out in the waste stream shall not exceed 35.4 tons as a group per twelve (12) consecutive month period with compliance determined at the end of each month and shall be limited to less than 25 tons as individual units per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 IAC 2-2 and 326 IAC 8-1-6, respectively, not applicable.

(b) Pursuant to CP067-1959-00022, the input volatile organic compounds (VOC) including flux and thinner delivered to the applicators of the two (2) wave solder machines, ID #181019 (Plant 9, Dept. 9602) and 186604 (Plant 9, Dept. 9602) (included in the insignificant activity list), along with one (1) conformal coater, ID #182386 (Plant 9, Dept. 7641), listed in Section D.2, minus the VOC flux/thinner shipped out in the waste stream shall not exceed 19.2 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 IAC 8-1-6 not applicable. This condition is the same as Condition D.2.2(a).

(c) Pursuant to CP067-6272-00022 and CP067-4218-00022, the input volatile organic compounds (VOC) including flux and thinner delivered to the applicators of one (1) wave solder machine, ID # 60000984 (Dept. 7661), minus the VOC flux/thinner shipped out in the waste stream shall be limited to less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 8-1-6 not applicable.

(d) Pursuant to MSM 067-17930-00061 (this modification), the input of volatile organic compounds (VOC), including flux and thinner delivered to the applicators of wave solder machine #1015805 (Plant 7, Dept. 286) minus the VOC flux/thinner shipped out in the waste stream, shall not exceed 25.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

(e) Pursuant to CP067-10500-00061, the potential to emit VOC of the nine (9) soldering machines, Tech 2000 - Dept. 9502 is less than 25 tons per year. Therefore the requirements of 326 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year must be approved by the Office of Air Quality before any such change may occur.

D.1.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.1.3 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by using formulation data supplied by the flux manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.4 Record Keeping Requirements

(a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.1.1.

(1) The throughput and VOC content of the flux;

(2) The throughput and VOC content of the thinners used;

(3) VOC flux/thinner shipped out in the waste stream;

(4) VOC input including flux and thinner minus VOC flux/thinner shipped out in waste stream.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1(a) through (d) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Two (2) wave solder machines (ID #184842, 2700001)
Parameter: The VOC input including flux and thinner delivered to the applicators minus the VOC flux/thinner shipped out in the waste stream
Limit: No more than 35.4 tons as a group per twelve (12) consecutive month period with compliance determined at the end of each month
Less than 25 tons as individuals per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

? No deviation occurred in this quarter.

? Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Wave Solder Machine #1015805
Parameter: The VOC input minus the VOC shipped out in the waste stream (including flux and thinner)
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

? No deviation occurred in this quarter.

? Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Minor Source Modification and a Part 70 Minor Permit Modification

Source Background and Description

Source Name:	Delco Electronics Corporation
Source Location:	2100 East Lincoln Road, Kokomo, Indiana 46904
County:	Howard
SIC Code:	3089, 3469, 3471, 3651, 3672, 3674, 3679, 3694
Operation Permit No.:	T067-6505-00061
Operation Permit Issuance Date:	October 21, 2002
Minor Source Modification No.:	067-17930-00061
Minor Permit Modification No.:	067-17932-00061
Permit Reviewer:	ERG/YC

The Office of Air Quality (OAQ) has reviewed a modification application from Delco Electronics Corporation relating to the construction of the following emission units and pollution control devices:

One (1) wave solder machine, ID #1015805 (Plant 7, Dept. 286), constructed in 2003, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1.

History

Delco Electronics Corporation is an existing automotive industry electronic components manufacturing plant and their Part 70 permit (T067-6505-00061) was issued on October 21, 2002. On May 15, 2003, Delco Electronics Corporation submitted an application to the OAQ requesting to replace the existing wave solder machine #184737 with an identical unit #1015805. This replacement occurred in July 2003. Since this qualifies as a replacement of an existing emission unit under 326 IAC 2-7-10.5(b)(3), the Permittee could initiate the replacement before receiving air approvals, but must submit an application for a permit no later than 30 days after initiating the replacement, pursuant to 326 IAC 2-7-10.5(b).

Source Definition

This source, which produces electronic components principally for the automotive industry, consists of the following plants:

(a) Plants 6, 7, and 9 (Plant ID 067-00022), located at 1800 - 2100 East Lincoln Road, Kokomo, Indiana;

(b) Plants 8, and 10 (Plant ID 067-00023), located at 2150 East Lincoln Road, Kokomo, Indiana; and

(c) Fab III (Plant ID 067-00051), located at 2033 East Boulevard Avenue, Kokomo, Indiana.

Since these plants are located on contiguous or adjacent properties, belong to the same industrial grouping, and are under common control of the same entity, IDEM, OAQ has determined that these plants are considered one (1) single source. This determination was made during the review of the source's Part 70 Permit (T067-6505-00061, issued on October 21, 2002) and will apply to this modification as well.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 Minor Source Modification and the Part 70 Minor Permit Modification be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on May 15, 2003. Additional information was received on July 7, 2003, July 28, 2003, and August 20, 2003.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (Page 1).

Potential To Emit of Modification

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	--
PM-10	--
SO_2	--
VOC	34.7
CO	--
NO_x	--

Justification for Modification

This replacement is being performed through a Part 70 Minor Source Modification pursuant to 326 IAC 2-7-10.5(d)(5)(A) as the potential to emit VOC from this modification is limited to less than 25 tons/yr by limiting the VOC usage for the new solder machine. The replaced solder machine was also limited to less than 25 tons/yr in the source's Part 70 permit (T067-6505-00061, issued October 21, 2002). The permit modification is being performed through a Part 70 Minor Permit Modification pursuant to 326 IAC 2-7-12(b) because this modification meets all the requirements in 326 IAC 2-7-12(b)(1).

County Attainment Status

The source is located in Howard County.

Pollutant	Status
PM-10	Attainment
SO_2	Attainment
NO_2	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Howard County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) Howard County has been classified as attainment or unclassifiable for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Fugitive Emissions
Since this type of operation is not in one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive PM emissions are not counted toward determination of PSD applicability.

Source Status

Existing Source PSD Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	Less than 100
PM-10	Less than 100
SO_2	Greater than 100, but less than 250
VOC	Greater than 250
CO	Less than 100
NOx	Greater than 250

(a) This existing source is a major stationary source because at least one of the attainment regulated pollutants (VOC and NO_x) is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.

(b) These emissions are based upon the Technical Support Document (TSD) for the source's Part 70 Permit (T067-6505-00061), issued on October 21, 2002.

Potential to Emit of Modification After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 source modification.

	Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	HAPs
Wave Solder Machine #1015805	-	-	-	Less than 25	-	-	-
PSD Significant Thresholds	25	15	40	40	100	40	NA

This modification to an existing major stationary source is not major because the emission increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this proposed modification.

(c) This modification does not involve a pollutant-specific emissions unit:

(1) With the potential to emit before controls equal to or greater than one hundred (100) tons per year, and

(2) That is subject to an emission limit and has a control device that is necessary to meet that limit.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this modification.

State Rule Applicability - Wave Solder Machine #1015805

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The replaced wave solder machine (#184737) was constructed in 1998 and the VOC usage for this unit was limited to less than 25 tons/yr. The new wave solder machine (#1015805) was constructed in 2003 and has potential VOC emissions greater than 25 tons per year. The source proposed to limit the VOC input to the new solder machine, including flux and thinner delivered to

the applicators, minus the VOC flux/thinner shipped out in the waste stream, to less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

There are no particulate emissions from solder machines because they are similar to flow coaters. Therefore, the requirements of 326 IAC 6-3-2 are not applicable. In addition, Condition D.1.2 in the source's Part 70 permit (T067-6505-000061, issued on October 21, 2002) for particulate emission limitations has been removed from the revised permit.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance of VOC usage limit for the new wave solder machine is based on the recordkeeping. Therefore, there are no specific compliance monitoring requirements applicable to this modification.

Proposed Changes

The source's mailing address in all the reporting forms has been changed to "P.O. Box 9005, Kokomo, Indiana 46904-9005." IDEM, OAQ also made the following changes to the permit:

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a source which produces electronic components principally for the automotive industry.

Responsible Official:	Managing Director, Kokomo Operations
Source Address:	2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address:	P.O. Box 9005, Kokomo, Indiana 46904-9005
General Source Phone Number:	(765) 451-6738
SIC Code:	3089, 3469, 3471, 3651, 3672, 3674, 3679, 3694
County Location:	Howard
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD Minor Source, Section 112 of the Clean Air Act **Not 1 of 28 Source Categories**

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)

(a) One (1) wave soldering system, referred to as EU_WS, and comprised of the following emission units:

(3) One (1) wave solder machine, ID #~~184737~~ **1015805** (Plant 7, Dept. 286), constructed in ~~1998~~ **2003**, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1;

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) One (1) wave soldering system, referred to as EU_WS, and comprised of the following emission units:

(1) One (1) wave solder machine, ID #184842 (Plant 9, Dept. 270E), constructed in 1997, with a capacity of 500 boards per hour, 5.78 pounds of flux per hour, and 0.09 pounds of thinner per hour, and exhausting to stack 9-E98-1;

(2) One (1) selective soldering machine, ID #2700001 (Plant 9, Dept. 270S), constructed in 1998, with a capacity of 90 boards per hour, 0.738 pounds of flux per hour, and no thinner use, and exhausting to stack 9-F98-1;

(3) One (1) wave solder machine, ID #~~184737~~ **1015805** (Plant 7, Dept. 286), constructed in ~~1998~~ **2003**, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1;

(4) One (1) wave solder machine, ID #181019, (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F8-1;

(5) Nine (9) soldering machines, (Tech 2000 - Dept. 9502); two (2) constructed in 1999, ID#169964 and 208554; one (1) constructed in 2001; one (1) to be constructed in 2002; two (2) to be constructed in 2003; and three (3) to be constructed in 2004; all received approval in 067-10500-00061, with a capacity of 90 boards per hour each, and exhausting to stack 9-Z21-1 and 9-Z21-2; and

(6) One (1) wave soldering machine, ID #60000984, (Plant 7, Dept. 7661), constructed in 1996, with a capacity of 450 boards per hour, and exhausting to stack 7-T18-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

D.1.1 Volatile Organic Compounds (VOC) **[326 IAC 8-1-6] [326 IAC 2-2]**

(a) Pursuant to CP067-8909-00061, **issued November 13, 1997,** the input volatile organic compounds (VOC) including flux and thinner delivered to the applicators of the ~~three (3)~~ **two (2)** wave solder machines, ID # 184842 (Plant 9, Dept. 270E), **and** 2700001 (Plant 9, Dept. 270S), ~~and 184737 (Plant 7, Dept. 286),~~ minus the VOC flux/thinner shipped out in the waste stream shall not exceed 35.4 tons as a group per twelve (12) consecutive month period with compliance determined at the end of each month and shall be limited to less than 25 tons as individual units per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 IAC 2-2 and 326 IAC 8-1-6, respectively, not applicable.

. . . . . .

(d) Pursuant to MSM 067-17930-00061 (this modification), the input of volatile organic compounds (VOC), including flux and thinner delivered to the applicators of wave solder machine #1015805 (Plant 7, Dept. 286) minus the VOC flux/thinner shipped out in the waste stream, shall not exceed 25.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

(~~d~~**e**) Pursuant to CP067-10500-00061, the potential to emit VOC of the nine (9) soldering machines, Tech 2000 - Dept. 9502 is less than 25 tons per year. Therefore the requirements of 326 8-1-6 are not applicable.

~~D.1.2 Particulate Emission Limitations [326 IAC 6-3-2]~~

~~(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from each of the soldering machines shall not exceed the pound per hour emission rate established using the following equation:~~

~~Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:~~

~~$E = 4.10 P^{0.67}$~~ ~~where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour~~

~~(b) Pursuant to 326 IAC 6-3-2, the allowable particulate emissions rate from each of the wave soldering machines with a process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~

D.1.~~3~~**2** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

D.1.~~4~~**3** Volatile Organic Compounds (VOC)

D.1.~~5~~**4** Record Keeping Requirements

D.1.~~6~~**5** Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1(a) through (~~c~~**d**) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: ~~One Corporate Center, Mail Station 8121~~ **P.O. Box 9005**, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: ~~Three (3)~~ **Two (2)** wave solder machines (ID #184842, 2700001~~), 184737)~~
Parameter: The VOC input including flux and thinner delivered to the applicators minus the VOC flux/thinner shipped out in the waste stream
Limit: No more than 35.4 tons as a group per twelve (12) consecutive month period with compliance determined at the end of each month
Less than 25 tons as individuals per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

? No deviation occurred in this quarter.

? Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Wave Solder Machine #1015805
Parameter: The VOC input minus the VOC shipped out in the waste stream (including flux and thinner)
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

? **No deviation occurred in this quarter.**

? **Deviation/s occurred in this quarter.**
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Conclusion

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 067-17930-00061. The operation of this proposed modification shall be subject to the conditions of the proposed Part 70 Minor Permit Modification No. 067-17932-00061.

Appendix A: Emission Calculations
VOC Emissions
From the Wave Solder Machine #1015805

Company Name: Delco Electronics Corporation
Address: 2100 East Lincoln Road, Kokomo, IN 46904
MSM: 067-17930-00061
Reviewer: ERG/YC
Date: September 4, 2003

*Material	Density (lbs/gal)	Weight % Volatile (H_2O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of Material	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
Thinner - Isoproply Alcohol	6.59	100.00%	0.0%	100.0%	600	0.00044	6.59	1.74	41.75	7.62
Flux - Kester 958	6.72	91.16%	0.0%	91.2%	600	0.00168	6.13	6.19	148.46	27.1
Total								**7.93**		**34.7**

* The thinner or fluxapplied does not contain any HAP.

METHODOLOGY

Pounds of VOC per Gallon of Material = Density (lbs/gal) x Weight % Organics
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon of Material (lb/gal) x Max. Throughput (unit/hr) x Max. Usage (gal/unit)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon of Material (lb/gal) x Max. Throughput (unit/hr) x Max. Usage (gal/unit) x 24 hr/day
PTE of VOC (tons/yr) = Pounds of VOC per Gallon of Material (lb/gal) x Max. Throughput (unit/hr) x Max. Usage (gal/unit) x 8760 hr/yr x 1 ton/2000 lbs